

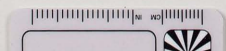
AIM Ann Report
1937 to 1938

ANNUAL REPORT
OF THE
AUCKLAND
INSTITUTE
AND MUSEUM
1937-38



For presentation at the Annual General
Meeting to be held on 23rd May, 1938.

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AUCKLAND
1938.

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Staff of the Museum.

Director	GILBERT ARCHEY, O.B.E., M.A., F.R.S.N.Z.
Hon. Numismatist	J. C. ENTRICAN.
Hon. Curator of English China ..	C. REGINALD FORD, F.R.I.B.A.
Hon. Entomologist	W. H. HEMINGWAY.
Hon. Philatelist	VEN. ARCHDEACON W. J. SIMKIN.
Assistant Director	A. W. B. POWELL.
Botanist	LUCY M. CRANWELL, M.A.
Ethnologist	V. F. FISHER.
Assistant Ethnologist	OLWYN M. RUTHERFORD.
Assistant Zoologist	E. G. TURBOTT, M.Sc.
Associate Geologist	C. W. FIRTH, M.Sc.
Education Officer	R. A. SCOBIE, B.A.
Librarian	M. C. CLELAND.
Bookkeeper and Typist	MURIEL PORTER.
Recorder and Typist	DOROTHY HESSELL.
Mechanic	EDWIN LEECE.
Taxidermist	C. W. DOVER.
Cabinetmaker and Joiner	FRANK QUAYLE.
Custodian	W. HAWKE.

Attendants:

J. L. DAVY, D.C.M., E. PIERARD, M. HOLDSWORTH, J. STEWART,
E. W. THOMPSON.

OFFICERS
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
1937-1938

President:

SIR CARRICK ROBERTSON, F.R.C.S.

Vice-Presidents:

PROFESSOR H. W. SEGAR, M.A., F.R.S.N.Z.

SIR CECIL LEYS.

MR. A. T. PYCROFT.

Council:

DR. HOLBROOK A. CHATFIELD. MR. A. G. LUNN.

MR. J. C. ENTRICAN.

MR. F. CROSSLEY MAPPIN.

MR. W. A. FAIRCLOUGH.

MR. H. C. McCOY.

MR. C. R. FORD, F.R.I.B.A.

MAJOR-GEN. SIR GEO. RICH-
ARDSON, K.B.E., C.B., C.M.G.

MR. W. GOODFELLOW.

MR. A. H. JOHNSTONE, K.C.

MR. E. EARLE VAILE.

Representatives of the Auckland City Council:

HIS WORSHIP THE MAYOR, SIR ERNEST DAVIS.

MISS ELLEN MELVILLE. HON. T. BLOODWORTH, M.L.C.

MR. N. V. DOUGLAS.

Representatives of Local Bodies:

MR. S. DONALDSON.

MR. S. W. HOUSE.

MR. J. C. RENNIE.

Trust Board:

MR. V. J. LARNER (Chairman).

MR. A. G. LUNN.

MR. E. ANDERSON.

MR. KENNETH B. MYERS

SIR CECIL LEYS.

Director:

GILBERT ARCHEY, O.B.E., M.A., F.R.S.N.Z.

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PROFESSOR SIR ALGERNON THOMAS, K.C.M.G.

Reports to Members

President.

In this, the seventieth report of the Auckland Institute and Museum, it is indeed a pleasure to be able to report continued and increasing activities in the various departments, the details of which will be found in the individual reports contributed by members of the staff.

On reading these reports none can fail to realize the keen desire of everyone connected with this institution to make their several activities increasingly efficient, not only from the purely scientific point of view, but also from the point of view of the large number of the public who visit the Museum in pursuit of general knowledge.

Membership.—The present roll is 544, of whom 160 are life members. Sixteen names have been removed by death, fifteen have resigned, and eight have been deleted. Twenty-two new ordinary members have been elected, and three new life members. This makes a decrease of eleven on last year's total.

Obituary.—I refer with deep regret to the death during the year of Sir Algernon Thomas, Dr. Prins, Dr. Neil McDougall, Miss A. C. Morrison, and Messrs. J. Ambury, P. Chambers (omitted from last report), H. C. Choyce, R. E. Fenton, A. Gray, R. Geddes, J. Gillett, W. J. Holdsworth, E. Morton, L. T. Symes, E. Phillips Turner, and Liston Wilson. Botanical science has lost a distinguished student by the death of Mr. E. Phillips Turner, F.L.S., who rendered devoted service to New Zealand as Director of Forestry.

In regard to the serious loss we have suffered in the death of Sir Algernon Thomas, the following resolution was passed by the Council at its meeting on 16th February:—

"That this Council expresses its deep regret at the death of Professor Sir Algernon Thomas, K.C.M.G., M.A., F.R.S.N.Z., and places on record its sincere appreciation of his distinguished services to science and education. The Council further makes grateful acknowledgment of Sir Algernon Thomas's long and earnest support of the Auckland Institute and Museum, of which he was the President for four years, Chairman of the Trust Board for eight years, and for over fifty years a member of the Council."

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Council.—Seven meetings of the Council were held. Mr. Earle Vaile was elected to the Council at the last Annual General Meeting, and the Hon. T. Bloodworth was reappointed by the City Council in place of Mr. E. F. Andrews. Mr. Kenneth B. Myers has been elected to the Trust Board in the place of the late Sir Algernon Thomas.

Staff.—During most of the year the Director, Mr. Gilbert Archey, has been away on leave of absence visiting and studying museums in Europe and America. He returned in January with much useful information. During his absence the Assistant Director, Mr. Powell, carried on the duties of Director as well as those of his own department.

Two new honorary appointments have been made—the Ven. Archdeacon W. J. Simkin as Honorary Philatelist, and Mr. W. H. Hemingway as Honorary Entomologist. Mr. Hemingway, who loaned his extensive collection of tropical insects, has been most active in keeping a display of different parts of this collection on exhibition during the year. He generously employs an assistant, who does much useful and necessary work in keeping the entomological collection in order.

Education.—Education Officers have been appointed to the four metropolitan museums: Mr. R. A. Scobie to this Museum. Before they started work, the four appointees met at the Auckland Museum for a course of instruction and conference in drawing up schemes and methods of teaching museum subjects.

Since the schools opened, as many as 800 children, in classes, have visited the Museum in one week, and this serves to draw attention to the need of class rooms and a lecture hall, as mentioned in the last Annual Report. The Council is still keeping this matter in view and hopes to be able to report some progress before long.

Exhibits.—The newly-formed Art Galleries and Museums Association was instrumental in arranging with the Carnegie Corporation for Mr. Frank Tose, Chief of Exhibits, California Academy of Sciences, to visit Australian and New Zealand Museums. He conducted an instructive course in preparation of display accessories at the Dominion Museum, Wellington. Three of our staff, Misses Cranwell and Rutherford and Mr. Dover, attended. Mr. Tose also gave two addresses at the Auckland Museum on "Modern Methods of Museum Display."

Flower Show.—This was the sixth to be held, and its popularity is shown by the attendance, 10,400. For the various prizes there were 165 children's entries and 27 adult. Such was the enthusiasm shown by visitors that an Auckland Botanical Club was formed, and at its inaugural meeting in the library there were over 150 present.

Loder Cup.—This valuable trophy was awarded to this Institute and Museum, coupled with the name of Miss Cranwell, for the valuable work done through the Native Flower Shows in creating live public interest in the beauties of our native flora.

Museum.—The attendances during the year were 179,848, a weekly average of 3,459.

Again our thanks are due to many donors of valuable gifts. A complete list is given in another place, but mention ought here be made of our especial indebtedness to Mr. Earle Vaile, who has presented a large collection of ethnographical specimens and six Italian bronzes of classical figures. We are grateful to Mrs. E. Rutherford, who has loaned her extensive collection of Chinese Art for a further period of exhibition.

A bronze plaque has been erected at the eastern entrance to the Maori Hall recording the notable service rendered to the Museum by the late Mr. H. E. Vaile, and his many gifts of valuable Maori ornaments and carvings, and a plaque commemorating the late Sir Charles Kingsford Smith's service to aviation, presented by Sir Ernest Davis, has been placed in the War Trophy Hall.

Finance.—The receipts for the year, £8,166, include £563 special donations and Carnegie Corporation contribution, revenue from our own resources, £7,603, being considerably less than last year, owing to reduced interest receipts. This, together with a large expenditure for building maintenance, namely, the installation of a new water system and the renewal of electrical wiring, has resulted in a seriously depleted balance.

CARRICK ROBERTSON.

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Chairman, Trust Board.

The members of the Trust Board record with deep regret the death of the Chairman, Professor Sir Algernon Thomas, who had served on the Board for over twenty years. The vacancy caused by his death has been filled by the appointment by the Council of Mr. Kenneth B. Myers.

Adjustments have been made as to certain mortgages, and one mortgagor has applied for relief under the Mortgagors Relief Act, but the application will probably not be heard for some time.

Funds awaiting investment have been absorbed by the purchase of £1,350 New Zealand Inscribed Stock and placing the balance on deposit, and investments now comprise £14,137 mortgages, £9,281 debentures, £5,815 New Zealand and Commonwealth Stock, and £652 on deposit.

The total endowment fund now amounts to £29,886.

V. J. LARNER.

Acting Director.

During the absence of the Director abroad, the Assistant Director was appointed Acting Director from February, 1937, to January, 1938, inclusive.

Institute Meetings—Eight evening lectures were arranged during the year, and three ordinary meetings. The high average attendance affirms the members' keen appreciation of the generous services of our lecturers, who were—

Mr. T. L. Lancaster, M.Sc., F.L.S.—“Some Aspects of Plant Life in the Upland Regions of New Zealand.”

Dr. D. Brown.—“The Velocity of Light and of Radio Waves.”

Dr. F. J. Gwynne.—“X-Rays in Chemistry, Crime and Commerce.”

Professor C. R. Knight, M.A., B.Arch.—“Recent Buildings of Importance Overseas.”

Captain G. M. Turner.—“London's River”; “The Glory of the Thames”; “Through the Panama Canal”; and “Glimpses of the Channel Islands.”

Captain G. M. Turner.—“The Waterways of Sweden”; “Oslo and the Skerries of Norway”; “Sea Birds of the Farne Islands”; and “Gannets of Bass Rock.”

Mr. E. F. Stead.—“New Zealand Bird Life.”

Lieutenant-Colonel E. R. Sawyer.—“Harnessing the Nile.”

At two of the ordinary meetings papers were contributed by members of the Anthropology and the Astronomical Sections. Papers were contributed by Miss L. B. Moore, Miss L. M. Cranwell and Miss O. M. Rutherford, Professor Bartrum, and Messrs. V. W. Lindauer, A. W. B. Powell, C. B. Michie and Major G. A. Buddle.

Sunday Afternoon Lectures.—So great is the interest shown in this series that the Museum Library no longer provides adequate accommodation, showing the need for an up-to-date lecture hall for this and our other educational services. We are much indebted to the lecturers for the following programme:—

Mr. W. H. Hemingway.—“Insect Wonders of the World.”
Lt.-Colonel E. R. Sawyer.—“Courtship, Marriage and the Home Among the Birds.”

Miss Briar Gardner.—“Pottery Through the Ages.”

Mr. W. K. Hounsell.—“Products of the Sea.”

Mr. V. F. Fisher.—“The Native Culture of the Gilbert Islands.”

Mr. F. L. Armitage.—“Historical Associations of London.”

A. G. Stevenson.—“Coastal Life at Muriwai.”

Captain G. M. Turner.—“Bird Studies Abroad.”

Miss O. L. G. Adams.—“Flax in the Service of the Maori.”

Miss L. M. Cranwell.—“Edible Plants of New Zealand.”

Mr. R. D. Campbell.—“Our Native Forests.”

Astronomical Section.—Hon. Secretary, Mr. S. C. Mayer. This, the fifteenth year of the Astronomical Society's existence, has been a most successful season. The membership stands at 33, including eleven members of the observing section. Six meetings have been held, with a popular lecture at each, and the Observatory has been open on fine Tuesday evenings throughout the year, except during January.

Anthropology and Maori Race Section.—Chairman, Mr. V. F. Fisher; Hon. Secretary, Mr. Allen Porter.

Membership during the year reached the total of 55, and attendances at all meetings were good.

Addresses or papers were given by Professor A. B. Fitt, Dr. G. B. Palmer, Mr. Geo. Graham, Mr. S. Watene, Rev. G. I. Laurenson, Mr. R. Waddell, Miss O. M. Rutherford, Mr. J. M. Smeeton, Mr. V. F. Fisher and Mr. G. R. Brookes.

A very successful conversazione was held at the Museum, members taking active part as speakers and guides, while the Boys' Ethnology Club provided excellent instruction and entertainment with a demonstration of Primitive Pottery-making Methods.

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Field days were held at Mt. Albert and One Tree Hill, and both were well attended.

Additions to the Collections.—Valuable additions have been received in all departments of the Museum, many as gifts and others by exchange and purchase.

Miss G. Caton Thompson has presented an extensive series of Palaeolithic flints from Kharga Oasis, Egypt; Mr. J. McIntosh has given an old brass whaling gun and other whaling relics from North Auckland; an unusual Maori stone slab with a carved face projecting from one end, obtained near Helensville, was donated by Mr. V. Aitkenhead; and the Shaw Savill and Albion Coy. presented the bell from their well-known liner "Ionic," the bell having been mounted and fitted for use at the front door of the Museum through the generosity of Sir Ernest Davis.

Field collecting by the staff, as in the past, has greatly improved the natural history collections.

During his trip abroad the Director received a number of gifts for the Museum, which include an unglazed pottery figure Han Period China, presented by Mr. Victor Rienaecker; Palaeolithic and Neolithic stone implements from Hampshire, the gift of Mr. C. O. Mogridge, Winchester Museum; and a fine collection of Peruvian ethnographical specimens donated by Captain A. W. F. Fuller, of London.

In the War Section two German Flags taken at Apia, Samoa, shortly after the landing of the N.Z. Expeditionary Force have been received; one from the Post Office, presented by Mrs. Ewena Cate, of Blenheim, and the other from the Administrative Building, donated by Mrs. Albert Slattery.

The Dr. H. J. Finlay collection of Recent and Fossil Mollusca, which was obtained by purchase, is a noteworthy addition, and is referred to in the departmental report.

Display.—A large introductory case featuring "The Life of the Plant," by Miss Cranwell, and exhibits illustrating "The Process of Tattooing," "The Making of Clothing" and "The Manufacture of Stone and Greenstone Adzes" added to the Maori exhibits by Miss Rutherford, are among the many new display features installed during the year.

Exhibitions and Educational.—In addition to an attractive display of tropical insects from the loan collection of Mr. W. H. Hemingway, the sixth annual Native Flower Show was held from September 18th to 26th, and proved very popular, the total attendance being estimated at 10,400.



Peruvian Red-figure Vase.
Presented: Capt. A. W. F.
Fuller.



Club from Marquesas Is.
Presented: Mr. E. Earle
Valle.



Carved Stone Slab from
Helensville.
Presented: Mr. V. Aitken-
head.

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Response to the Cheeseman Memorial Prize Competition was not as good as in previous years, but the entries, though few, were of good quality, and several of exceptional merit.

The School Service was maintained with the assistance of students on section from the Teachers' Training College, through the co-operation of the Principal, Mr. D. M. Rae; and now we have, through the generosity of the Carnegie Corporation and the Education Department, the full time appointment of an Educational Officer.

As in previous years, the staff has continued to give public lectures to outside organizations (Miss Cranwell 6, Mr. Fisher 16, Mr. Turbott 11 and the Acting Director 12), and the steadily mounting enquiries dealt with have exceeded 4,000 in number.

Publications.—Part two of volume two of the "Records" was issued in December, as well as the first of a series of Museum Guide books, "South Sea Folk," by Mr. Gilbert Archey.

The following papers by the staff were completed during the year:—

Gilbert Archey, Director—

"Revision of the Chilopoda of New Zealand, Pt. 2," Rec. Auck. Inst. and Mus., vol. 2, No. 2.

A. W. B. Powell, Assistant Director—

*"New Species of Nudibranchiate Mollusca from Auckland Waters" (ibid).

"Tertiary Molluscan Faunules from the Waitemata Beds," Trans. Roy. Soc. N.Z.

Lucy M. Cranwell, Botanist—

"New Plant Records from the Poor Knights, with special reference to *Todea barbara*," Rec. Auck. Inst. and Mus., vol. 2, No. 2.

"Fossil Pollens: the Key to the Vegetation of the Past," N.Z. Journ. Sci. and Tech., vol. 20.

(With Miss L. B. Moore) "Intertidal Communities of the Poor Knights Islands," Trans. Roy. Soc. N.Z., vol. 67.

V. F. Fisher, Ethnologist—

"The Material Culture of Oruarangi, Matatoki, Thames. IV. Musical Instruments," Rec. Auck. Inst. and Mus., vol. 2, No. 2.

*Mr. Guy C. Malcolm generously donated the excellent four-colour blocks which illustrate this paper.

Marine Natural History and Palaeontological Collections.

—Owing to administrative duties, no new displays were added during the year, but it was found possible to maintain the usual activities of the department, and to spend an adequate time on maintenance of the reference collections.

The collections were greatly enriched by the purchase of the Dr. H. J. Finlay collection of Recent and fossil mollusca. This extensive collection covers fourteen thousand species lots (over a million specimens), 437 holotypes, some hundreds of undescribed species, and is the largest single addition to the molluscan collections so far acquired. The collection is now completely arranged and available for reference.

The New Zealand fishes were augmented by a number of unusual specimens. The large broadbill swordfish, 620 lbs. and 13 feet 8 inches long, from off Mayor Island, caught and presented by Mr. H. W. Burch, is now on exhibition, and a cast has been prepared of an extra large snapper, 41 inches in length and weighing 28 lbs., from Gannet Island, off Kawhia, presented by Messrs. A. Watemburg and W. Meyer. An excellent cast of a half-grown ocean sunfish, presented by Messrs. Sanford Ltd., has been placed on exhibition also.

Other notable accessions were three new species of *Paryphanta* land snails, one from Mt. Tuhua, Westland, presented by Mr. Owen Fletcher, and others from the vicinity of Mt. Arthur, Nelson, and Tararua Range, presented by Mr. A. C. O'Connor. Collections of Barrier Reef and Fijian marine mollusca were presented by Messrs. R. Sanders and A. B. Herrold respectively.

Owing to other duties, little progress was made with the routine work of identifying and labelling the reference collection, but very satisfactory progress was made with the sifting and sorting of microscopic material from deep water dredgings. This work was made possible by the generosity of the President, Sir Carrick Robertson, and Mr. F. C. Mappin, both of whom gave grants for the employment of an assistant.

Several week-end and day trips around the Harbour and Gulf have served to keep up with the Waitemata Ecological Survey investigations, and a coastal trip on the trawler "Maud E" for the purpose of an investigation into the distribution of "bonito" and "albacore" in local waters was undertaken at the invitation of Messrs. Sanford Ltd.

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Six lectures were given during the year, six broadcasts from 1YA, and ten evening meetings and a number of field days were arranged for the "Museum Conchology and Marine Natural History Club," the average attendance being seventeen.

In addition to two papers completed during the year, an illustrated handbook entitled "The Shellfish of New Zealand" was published in September.

Satisfactory progress is being made on the extensive collections of deep sea Antarctic mollusca submitted by the "Discovery" Committee, London, for the purpose of a report.

It was not possible to segregate the departmental enquiries for the year, but the total handled must have been in the vicinity of 1,200. Weekly nature articles in a local paper have stimulated much interest in natural history, as evidenced by numerous letters and telephone calls.

In concluding my temporary duties as Acting Director, I wish to thank the Council, the Director and the staff for much assistance, co-operation and good will during a year of varied and intensive activity.

A. W. B. POWELL.

Education and School Service.

With the aid of students from the Auckland Training College kindly made available by the Principal, Mr. D. M. Rae, the Museum staff maintained the Educational Services, both junior and adult. In spite of the absence for the greater part of the year of a full-time Education Officer, we were able to cope with an increased number of children, some 6,735 attending in 109 visits. Talks and demonstrations, with materials, slides and films, were arranged for visiting classes and thirty-three school cases and ten smaller boxes were circulated to city and suburban schools.

Adult education in the form of lectures and expeditions was given by the staff of the Museum to outside meetings and in the field. A new feature is the active interest of cultural groups from the Auckland Boys' Grammar School and the Auckland Teachers' Training College. The former elected to make studies in Anthropology and Natural History, while the Training College students individually covered subjects from almost every department. Informal and hobby interests were continued by the members of the Ethnological and the Conchological Clubs. The Ethnological Club maintained its full membership of 20, meeting regularly once a

week. Under its new organization the Conchology Club has 25 active members, combining evening lectures with field excursions, and by the creation of associate membership its activities have been widened considerably.

A pleasing connection in the educational work is reflected in a Ropu Mahi Maori Club run by Miss Rutherford at the Victoria School for Maori girls, while enthusiasts in botany and zoology have been encouraged by Miss Cranwell and Mr. Turbott to make hobbies of their interests and to pursue them further. Senior and Junior classes in Nature Study continue to come weekly from the Jubilee Institute for the Blind.

Co-ordination in educational matters has been made through members of the staff broadcasting, by supplying an increasing number of schools with slides and loan material, and by lending the Museum films to the Visual Education Association. It is evident from the appreciation received from teachers and their associations that such co-operation is highly valued. We are indebted to the Carnegie Institute for its donation of a fine motion picture projector.

A very high standard was set by the entrants of the Cheeseman Memorial Competition. The children had the choice of arranging either a case or a botanical display on cards. Enthusiasm in the Native Flower Show has increased to such an extent that a new competitive section for adults has been formed.

R. A. SCOBIE.

Honorary Entomologist.

Following my appointment as Hon. Entomologist last year, the first task was the attention to the Clarke and Philpott research collections of New Zealand lepidoptera and coleoptera, both of which have been maintained in an excellent state of preservation.

In May last, some 65 cases of insects of various Orders taken from my collection were placed on public exhibition as a loan exhibition, and the display appears to have been much appreciated by visitors.

Before leaving Auckland on a collecting tour of the Orient, I arranged that Miss Ruth Chandler should, in my absence, visit the Museum and care for the specimens, almost constant attention being necessary to entomological collections in this country. During my eight months absence, I collected intensively in Japan, the Philippines, China, Indo-China, Malaya, Sumatra and Java, and

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have brought back some 1,250 further specimens. As the relaxing and setting of this great number of specimens entails considerable work, I secured the services of Miss M. Carter, who for some months now has been assiduously engaged at the Museum.

A permanent display of insects for the Museum is now in preparation and will be housed in some 57 cases, which within the next few months will replace those at present on public exhibition. The idea is to place on public view some thirty or forty cases which will be changed from time to time, and in this way there will always be something "new" for the public to see. Included will be a number of cases featuring development and life histories.

Since my return informal talks and exhibitions of insects have been given in several of the local schools. During the summer a great number of local insect specimens were received for naming, and in most instances Mr. Turbott and I have been able to give inquirers the required information and detail sought.

WILFRID H. HEMINGWAY.

Botanist.

1937 has been a year of consolidation—in the mounting, identifying and labelling of collections received during the last few years, in the completing of the cataloguing of the Cheeseman Herbarium, and in the re-arranging of four display cases. A new Carnegie experimental exhibit—The Life of the Plant—was commenced in December. Miss B. Molesworth and Miss J. Harrison-Smith gave valuable assistance with herbarium and display work respectively.

Collecting was limited to a few days on Motiti Island and the Waikato peat bogs, but much material, especially seaweeds, was received from collectors in both islands.

The sixth Native Flower Show (September 18-26th) drew 192 entries from individual children and adults and from clubs, some of the country schools concentrating on the new sections for paintings and ecological collections of pressed specimens. Clevedon and Hoheria schools distinguished themselves with exhibits of over 70 species each, correctly labelled. Among those who gave tireless assistance were Miss K. Pickmere, Miss L. B. Moore, Mr. J. E. Attwood, Mr. N. Pierce, Mr. L. Poole and Mr. K. Thompson.

Much interest was shown in the formation of a Botanical Society, suggested by Sir Carrick Robertson in his opening address, and as a result an inaugural meeting was called for October 28th.

Since then a syllabus of lectures and excursions has been drawn up, one of the main activities suggested being the organization of the 1938 Native Flower Show.

The winter series of eleven Sunday Afternoon Lectures was arranged. Six lectures were given and three papers published.

Research work in progress includes the study of New Zealand pollens, under a grant from the Department of Scientific and Industrial Research. Mr. W. F. Harris has already made preparations of 450 species, and has daily set out slides for atmospheric pollens.

L. M. CRANWELL.

Ethnologist.

During the year the collections were increased by some 1,145 specimens; accessions of importance being an extensive collection of Polynesian and Maori specimens, presented by Mr. E. Earle Vaile; a Moriori wooden implement, from Bishop F. A. Bennett; a collection of Papuan specimens and a Maori canoe bailer from Mr. R. S. Abel; a stone slab with a carved head at one end donated by Mr. V. Aitkenhead; and whaling relics, including a brass gun, presented by Mr. J. McIntosh.

Additions to the display collections have been effected in the Maori, Polynesian and Melanesian sections, while a number of further specimens have been exhibited in the foreign sections. The major alterations to the displays were carried out by Miss Rutherford, and are mentioned in her report.

Sixteen lectures were given, four talks to children from the Jubilee Institute for the Blind, as well as numerous conducted tours of the exhibition halls, and facilities afforded students of cultural groups in ethnology.

Activities of the Boys' Ethnological Club, which has a membership of twenty, were weekly meetings, demonstrations of "Primitive Pottery Making Methods," to the members of the Anthropology Section, and to representatives of the contributing Local Bodies; a week-end camp at Hunua and a week's camp at Woodhill. Schools, cultural societies and Training College students made extensive use of lantern slides and specimens.

The reserve collections received much attention, including the classification of material from the D'Entrecasteaux Group, the Gilbert Islands, and a much needed reorganization of the New Guinea

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section. These reserve collections, especially the Maori and Pacific Islands sections, are attracting an increasing number of research students, both local and from further afield.

A paper was contributed to the Museum Records, and field work consisting of a week on the Coromandel Peninsula and several local day trips resulted in the acquisition of a number of specimens and valuable field information.

At the invitation of Princess Te Puea, C.B.E., a visit was paid to Ngaruawahia for the opening of King Koroki's house and launching of the newly constructed canoe "Te Winika." Hawke's Bay and Bay of Plenty districts were visited, three days having been spent studying material at the Hawke's Bay Museum, Napier, and tendering advice concerning the collections.

The collection of lantern slides continues to grow; the registration of new slides and care of the collection occupying some time.

Personal interviews for information amounted to 531, in addition to many enquiries by telephone and correspondence.

V. F. FISHER.

Assistant Ethnologist.

The scheme for the re-arrangement of the Pacific Island Hall has been completed and progress has been made with a similar series of experimental displays in the Maori Section. Here exhibits have been made to illustrate the process of tattooing; of making certain types of clothing, and the method of manufacturing stone and greenstone adzes. The Chatham Island material has been displayed on a new type of background, and a case has been arranged to show the principal food supplies of the Maori with methods of preparation and storage.

Another case, "Maori Craftsmanship," illustrated by bone, stone and shell specimens to show the process of manufacture of various implements, has been prepared for the Carnegie Exchange System of travelling cases, and is now in circulation.

Two weeks were spent at the Dominion Museum, when, under the direction of Mr. Frank Tose, of the California Academy of Science, new methods of Museum display and technique were studied.

O. M. RUTHERFORD.

Assistant Zoologist.

Accessions during the year include 11 mammals, 117 birds and 17 reptiles, outstanding items being a series of birds collected in the Phoenix Group by Major G. A. Buddle; cases of New Zealand birds mounted many years ago from Mrs. A. Penn and Mr. T. H. Hankin; a named collection of British birds' eggs from Mr. Anthony and Miss Shirley Golding; a fine North Aldabra giant tortoise from Auckland Zoological Park; and a large number of foreign aviary birds.

The chief new item of display is a habitat group of New Zealand inland water birds mounted by the taxidermist, Mr. C. W. Dover, while general additions have been made to the present series of land vertebrates. A case descriptive of the tuatara has been completed for the School Service.

Care of the research collections has included an overhaul of the mammals, birds, reptiles, amphibians and land invertebrates in preservative. The New Zealand birds' eggs and part of the foreign collection of eggs have been identified and arranged in trays, much valuable help in this work having been given by Mr. S. D. Potter.

A field trip to the Chatham Islands in December and January enabled observations and photographs to be obtained in rarely visited localities. Collections were made of remains of the extinct rail, *Diaphorapteryx hawkinsi*; and of lizards, insects and marine material.

Eleven public lectures were given during the year, including three educational broadcasts to schools from IYA. Up to the end of 1937 a considerable amount of time was absorbed by the School Service, while eight classes were taken for pupils from the Jubilee Institute for the Blind. In addition a cultural group of Training College students studying birds was supervised, and meetings of the Auckland Visual Education Association Executive were attended.

A cinematograph film recording bird life observed on the New Zealand Solar Eclipse Expedition to the Phoenix and other Pacific Islands was made for the Museum by Major Buddle; and 120 lantern slides, 70 photographic prints and a number of negatives were added to existing sets.

A large number of inquiries have been received and answered by letter, telephone and personal interview.

E. G. TURBOTT.

AIM Ann Report

1937 to 1938

Associate Geologist.

During the year numerous enquiries have been dealt with, and over 100 mineral and rock specimens have been added to our collections.

Chief among the additions for the year are some 50 mineral specimens from the collections of the late Sir Algernon Thomas, and a further 21 specimens of South Island rocks from Dr. F. J. Turner, of Otago University. Excellent samples of two rare minerals have been presented by Mr. Woodhouse, of California.

Work in the halls has been largely confined to the arrangement of (1) a two-panel display of New Zealand's building and ornamental stones, (2) a single panel dealing with the less important minerals in our mining industry, and (3) a five-panel treatment of the salient features of local geology.

All aspects of our economic geology are now amply described.

The local display includes a brief description of Auckland's unique volcanoes, and is accompanied by two large index maps, one showing the distribution of the various rock types developed in our neighbourhood. The compilation of the latter involved considerable field work to fill in the gaps left by previously published maps of our district.

C. W. FIRTH.

Library.

There has been an expenditure of £289/10/6 on the library during the year—purchase of books £111/12/1, subscriptions to periodicals £121/2/6, binding and sundries £56/15/11.

A most important donation has been made, by the family of the late Sir Algernon Thomas, of a large number of books and pamphlets which will be greatly appreciated in the Botanical and Geological Sections. Mention must also be made of a gift of 35 volumes of the Proceedings of the Society of Antiquaries of Scotland by Mr. R. Donn. These, together with several miscellaneous donations mentioned in the Appendix and 92 volumes of scientific works which have been purchased, make a valuable addition to the library.

The magazine and serial publications subscribed to by the Institute, a list of which will be found on another page, continue to arrive regularly, and members have made full use of them and of the books which are available for borrowing.

Again I wish to thank Mr. E. W. F. B. L. Hendricks for his valuable service in cataloguing and cross-indexing.

MARSHALL C. CLELAND.

The following
Periodicals and Publications of Societies

are subscribed to by the Institute:

NATURE.
DISCOVERY.
SCIENCE PROGRESS.
REPORT OF THE BRITISH ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE.
TRANSACTIONS AND PROCEEDINGS OF THE ROYAL
SOCIETY.
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES
SCIENCES.
NEW ZEALAND JOURNAL OF SCIENCE AND TECHNOLOGY.
THE MUSEUMS JOURNAL.
THE PHILOSOPHICAL MAGAZINE.
THE AMERICAN JOURNAL OF SCIENCE.
THE PHYSICAL REVIEW.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL
SOCIETY.
JOURNAL OF THE CHEMICAL SOCIETY.
ARCHIV DER PHARMAZIE.
CHEMICAL REVIEWS.
MONATSSHEFTE FUR CHEMIE.
THE INDUSTRIAL CHEMIST.
THE GEOLOGICAL MAGAZINE.
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY.
THE GEOGRAPHICAL JOURNAL.
ANNALS AND MAGAZINE OF NATURAL HISTORY.
ANNALS OF BOTANY.
JOURNAL OF BOTANY.
DAS PFLANZENREICH.
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL
SOCIETY.
THE ZOOLOGICAL RECORD.
PUBLICATIONS OF THE RAY SOCIETY.
THE IBIS.
MAN.
JOURNAL OF THE ROYAL ANTHROPOLOGICAL INSTITUTE.
ANTIQUITY.
JOURNAL OF EGYPTIAN ARCHAEOLOGY.
OCEANIA.
JOURNAL OF THE POLYNESIAN SOCIETY.
TE WANANGA.
ART IN NEW ZEALAND.
MIND.
THE ECONOMIC JOURNAL.
THE ECONOMIC RECORD.
JOURNAL OF THE STATISTICAL SOCIETY.
QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL
SOCIETY.
THE JOURNAL OF ECOLOGY.
MANKIND.
COUNTRY SIDE.
THE GEOGRAPHICAL MAGAZINE.

AIM Ann Report 1937 to 1938

The Auckland Institute and Museum is an educational institution which gives free service to the whole community throughout the year.

Money is urgently needed to widen its activities and increase its service to the community by the spread of knowledge among present and future citizens.

If additional help cannot be given now, a bequest would be of great value.

Form of Bequest.

I give and bequeath to the Institution known as the Auckland Institute and Museum the sum of £..... free of succession or estate duty to be applicable for the general purposes of such Institution. And I declare that the receipt of the Treasurer or the proper officer for the time being of such Institution shall be a sufficient discharge for the same.

AIM Ann Report
1937 to 1938

	£	s.	d.		£	s.	d.
To Balance	1,188	0	0	By Salaries and Wages	5,868	11	0
Subscriptions	379	1	0	Insurance	38	19	10
Subscriptions in Advance	11	0	6	Library Expenses	289	0	2
Life Members	31	10	0	Institute Expenses	134	13	3
Interest—				Specimens—			
Mortgage	676	2	3	Purchase	364	17	6
Debenture	448	4	10	Collecting and Travelling Expenses	130	10	9
Inscribed Stock	122	9	0	Preserving and Display Expenses	174	1	0
Auckland Gas Company	15	15	11	School Services, Publications, etc.	321	16	8
Post Office Savings Bank	11	8	4	General Maintenance	513	0	6
Contributions from Local Bodies	5,700	0	6	Buildings—			
Sundry Receipts	64	17	2	Maintenance	312	8	4
Donations	207	14	6	Sundry Expenses	85	9	8
Contributions Specimen Purchase	80	15	5	Show Cases and Furniture	112	17	4
Contributions Shrine Account	37	3	3	Auckland Museum Maintenance Amendment Act, 1931 (Sec. 37)—			
Receiver Land Revenue—				Entertainment Expenses	15	10	8
Sales	1	9	10	Wreaths	6	15	6
Rents	25	0	11				
Carnegie Grant	356	11	7				
Mortgage—Reduction of Principal	12	10	0	Transfers—			
				Investment Account	12	10	0
				Museum Endowment Account	1	9	10
				Life Subscription Account	31	10	0
				Specimen Purchase	80	15	5
				Shrine Account	37	3	3
				Balance	822	13	10
	£9,354	14	6		£9,354	14	6

INCOME AND EXPENDITURE ACCOUNT.

For Year Ended 31st March, 1938.

EXPENDITURE.		INCOME.	
	£ s. d.		£ s. d.
To Salaries	5,868 11 0	By Subscriptions	424 14 6
.. Insurance	38 19 10	.. Life Members	31 10 0
.. General Maintenance	516 2 3	.. Interest Mortgages and Debentures	1,291 3 0
.. School Service and Education	76 2 0	.. Memorial Hall and Specimen Purchase	117 18 8
.. Institute Expenses	134 13 3	.. Contributions from Local Bodies	5,700 0 0
.. Auckland Museum Maintenance Amendment Act, 1931 (Sec. 37)	23 7 2	.. Donations	207 14 6
.. Sundries	38 12 3	.. Sundry Receipts	64 17 2
.. Building Maintenance	313 12 4	.. Post Office Savings Bank	11 8 4
.. Subscriptions Written Off	53 0 6	.. Rent R.L.R.	25 0 11
.. Transfers—		.. Sales R.L.R.	1 9 10
.. Life Subscription Capital Account	31 10 0	.. Carnegie Grant	356 11 7
.. Memorial Hall Trust Fund	37 3 3	.. Balance	741 6 0
.. Specimen Purchase	80 15 5		
.. Museum Endowment Account	1 9 10		
.. Depreciation Building	1,079 8 9		
.. Depreciation Furniture	680 6 8		
	£8,973 14 6		£8,973 14 6

MUSEUM ENDOWMENT ACCOUNT.

	£ s. d.	£ s. d.		£ s. d.
To Balance 31/3/38—			By Balance 1/4/37	13,507 2 0
.. Investments	13,728 12 0		.. Cash at Bank	275 3 8
.. Cash at Bank	55 3 6			13,782 5 8
	13,783 15 6		.. Add R.L.R. Sales	1 9 10
.. Less Reserve for Depreciation	271 5 5			13,783 15 6
	13,512 10 1		.. Less Reserve for Depreciation	271 5 5
	£13,512 10 1			13,512 10 1
				£13,512 10 1

LIFE MEMBERS' SUBSCRIPTION ACCOUNT.

	£	s.	d.		£	s.	d.	£	s.	d.
To Balance 31/3/38—				By Balance, 1/4/37—						
Investments	2,056	0	0	Investments	2,056	0	0			
Cash at Bank	378	11	5	Cash at Bank	347	1	5	2,403	1	5
				„ Transfer from Income and Expendi- ture Account				31	10	0
								£2,434	11	5
	£2,434	11	5							

ACCUMULATING ENDOWMENT ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1938—				April 1st, 1937—			
To Balance	318	8	7	By Balance	309	8	7
				March 31st, 1938—			
				By Interest	9	0	0
	£318	8	7		£318	8	7

MACKECHNIE LIBRARY BEQUEST ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1938—				April 1st, 1937—			
To Balance	13	13	11	By Balance	13	6	1
				March 31st, 1938—			
				By Interest	7	10	
	£13	13	11		£13	13	11

SIR JAMES GUNSON TRUST ACCOUNT.

	£ s. d.		£ s. d.
March 31st, 1938—		April 1st, 1937—	
To Balance	187 8 2	By Balance	181 19 6
		March 31st, 1938—	
		By Interest	5 8 8
	<u>£187 8 2</u>		<u>£187 8 2</u>

MEMORIAL HALL TRUST FUND.

	£ s. d.		£ s. d.
March 31st, 1938—		April 1st, 1937—	
To Balance	277 9 5	By Balance	234 6 2
		March 31st, 1938—	
		By Transfer	37 3 3
		By Interest	6 0 0
	<u>£277 9 5</u>		<u>£277 9 5</u>

SPECIMEN PURCHASE FUND.

	£ s. d.		£ s. d.
March 31st, 1938—		April 1st, 1937—	
To Balance	501 4 1	By Balance	414 8 8
		March 31st, 1938—	
		By Transfer from Sundry Receipts	80 15 5
		By Interest	6 0 0
	<u>£501 4 1</u>		<u>£501 4 1</u>

AUCKLAND INSTITUTE AND MUSEUM.

BALANCE SHEET as at 31st March, 1938.

LIABILITIES.			ASSETS.		
	£	s. d.		£	s. d.
Capital Account	422,229	14 4	Buildings—		
Sundry Creditors	32	7 10	1st April, 1937	215,887	9 8
Subscriptions Paid in Advance	11	0 6	Less Depreciation	1,079	8 9
Gunson Trust Fund	187	8 2			214,808 0 11
Mackechnie Bequest Fund	13	13 11	Furniture and Fittings—		
Mitchelson Prize Fund	55	3 1	1st April, 1937	27,100	8 10
Memorial Hall Trust Fund	277	9 5	Additions	112	17 4
Museum Endowment Account	13,512	10 1			
Accumulating Endowment Fund	318	8 7		27,213	6 2
Life Members' Subscription Capital A/c.	2,434	11 5	Less Depreciation	680	6 8
Buildings Reserve Fund	1,333	15 7			26,532 19 6
Specimen Purchase Fund	501	4 1	Collections—		
Reserve for Depreciation of Investments	271	5 5	1st April, 1937	155,638	16 5
			Additions	908	5 9
			Additions from Reserve	136	12 11
					156,683 15 1
			Library Books—		
			1st April, 1937	7,872	3 8
			Additions	289	0 2
					8,161 3 10
			Investments—		
			Mortgages	14,137	10 0
			Debentures	9,281	0 0
			N.Z. Inscribed Stock	3,833	12 0
			Australian Commonwealth Stock	1,982	10 0
					29,234 12 0
			Sundry Debtors—		
			Interest	445	9 2
			Subscriptions	128	2 0
					573 11 2
			Cash—		
			Bank of New Zealand	405	6 2
			Post Office Savings Bank	1,102	16 9
			Auckland Savings Bank Accounts	1,733	18 8
			Fixed Deposit, B.N.Z.	600	0 0
			Cash in Hand	1	10 0
					3,843 11 7
			Income and Expenditure Account—		
			Balance 31/3/38	741	6 0
			Plus Balance 1/4/37	599	12 4
					1,340 18 4
					£441,178 12 5
					£441,178 12 5

The Audit Office having examined the Balance Sheet and accompanying Accounts required by law to be audited, hereby certifies them to be correct.

GILBERT ARCHEY, Treasurer.

J. H. FOWLER,
Controller and Auditor-General.

AIM Ann Report
1937 to 1938

List of Benefactions
made to the
Auckland Institute and Museum
of an amount (or value) exceeding £50.

MONETARY GIFTS.

- 1876 Citizens of Auckland subscribed £2,026 towards first Museum building.
1878 Mr. J. C. Firth donated £106 for show cases.
1884 Mr. Edw. Costley bequeathed £12,150.
1887 Mr. David Nathan bequeathed £100.
1897 Mr. T. Russell donated £100 for geological specimens.
1901 Citizens of Auckland subscribed £1,000 for purchase of Mair collection.
1902 Mr. E. A. Mackechnie bequeathed £2,500.
1906 Citizens of Auckland subscribed £662 for purchase of Maori carved houses.
1911 Citizens of Auckland subscribed £684 for ancient Maori carvings.
1913 Sir John Logan Campbell bequeathed £1,000.
1921 Members of Institute subscribed £115 for pair of Temple Bronzes.
1923 Sir Wm. H. Herries bequeathed £1,000.
1924 Citizens of Auckland subscribed £698 for purchase of Maori collections.
1925 Members of Institute subscribed £100 for purchase of a Maori collection.
1926 Mr. David Goldie bequeathed £1,000.
1926 Sir James Gunson Presentation Committee presented £118 for purchase of Maori specimens.
1927 Mr. F. Shaw bequeathed £1,000.
1929 Mr. S. J. Ambury bequeathed £250.
1934 Mrs. R. M. Wilson: £50/10/-, given to establish the Sir Edwin Mitchelson Prize Fund.

SPECIMENS AND BOOKS.

- 1876 Mr. R. C. Barstow: Large collection of Maori articles.
1877 Mr. G. F. Edmonston: 564 volumes of scientific works.
1878 Mr. T. Russell, C.M.G.: 34 casts from the antique.
1879-83 Mr. J. T. MacKelvie: 390 books and large ethnographical collection.

- 1887 Mr. C. O. Davis: Valuable Maori collection.
- 1901 Mr. L. D. Nathan: Japanese Shinto Shrine.
- 1913 Mr. Henry Shaw: 62 scientific books.
Mr. F. Shaw: 110 scientific books.
Hon. Sir Edwin Mitchelson: Valuable collection of Kauri Gum.
- 1915 Dr. C. E. R. Bucknill: Collection of Old English Glass.
- 1916 Mr. Henry Shaw: Collection of Japanese art.
- 1917 Miss Ruth Northcroft: Large Maori and Polynesian Collection
- 1919 The Misses Yates: Collection of Indian weapons.
- 1920 Mr. James Dunning: Collection of North American Mammals.
- 1921 Mr. W. A. Aldred: Valuable collection of Maori specimens.
Hon. J. B. Turner: Important Fijian ethnographical collection.
- 1923 Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.: The Cheeseman Herbarium of native and foreign plants.
- 1924 Mr. Wm. Sutherland, I.S.O.: Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarck Group.
Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles.
Sir Cecil Leys: and
Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.
- 1925 Mr. F. Crossley Mappin: Valuable Maori and South Pacific exhibits.
- 1926 Mr. Geo. F. Webster: Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens.
- 1927 Mr. F. Crossley Mappin: Valuable Maori carvings.
Mr. Moss Davis: Valuable ethnographical specimens.
- 1928 Sir Cecil Leys and
Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.
Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
Mrs. S. J. Lushington: Large collection of mollusca.
- 1929 Mr. T. H. Barstow: Maori canoe prows and stern posts.
Mr. W. R. McGregor: New Ireland carved memorial figures.
Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.

AIM Ann Report 1937 to 1938

- Rev. W. H. Webster: Large collection of mollusca.
 Mr. C. E. Clarke: Large collection of N.Z. Insects.
 Executors Mr. W. M. Cole: Stone and Bronze Age Artifacts.
 Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.
- 1930 Mr. John Kenderdine: Large collection of books and pamphlets, including many rare works relating to New Zealand.
 Mr. H. E. Vaile: Addition to the Vaile Collection—a large number of Maori implements and greenstone ornaments.
 Mr. Moss Davis: Selected Maori exhibits, including an old Maori model canoe; also porcelain and ivory exhibits.
 Mr. L. J. Matthews: Two specimens of Moa eggs, one perfect and the other nearly so.
 Dr. L. Cockayne, C.M.G., F.R.S.: A large collection of N.Z. Plants.
- 1931 Sir Cecil Leys and.
 Mrs. Selwyn Upton: Valuable Maori antiquities; addition to the Dr. T. W. Leys Collection.
 Mrs. S. J. Lushington: Collection of valuable Silver and Sheffield Plate.
 Mrs. A. C. Lennard: A large collection of English porcelain.
- 1932 Mr. H. S. Dadley: Large and valuable collection of Oriental Arts.
 Mr. Moss Davis: Collections of early British Gold and Silver Coins and of European Ivory Carvings and Bronzes.
 Hon. Sir James Parr: Collection of Gold and Silver Mementoes of public events in New Zealand, together with case for their display.
- 1933 Vaile Collection: Additional gift of a large collection of valuable Maori antiquities.
 Mr. W. Goodfellow: An extensive ethnographical collection from Northern Melanesia.
- 1934 Miss Eleanor Brown and Mrs. Geo. Brownlee: Collection of heirlooms of the Ngati-toa and Ngati-awa Tribes.
 Messrs. R. B. and G. Matthews: The H. B. Matthews Herbarium.
- 1935 Mr. F. Crossley Mappin: Maori Specimens, including handsomely carved sternpost.
 The Admiralty: Model of H.M.S. New Zealand.
- 1936 Captain G. Humphreys-Davies: Large and valuable collection of Chinese Pottery Figures.
 Mrs. T. G. Russell: 235 volumes of Chemical and Physical Works from the library of her father, the late Professor Brown.
 Mr. E. Earle Vaile: Valuable Maori hei-tiki and Rapa Island stone artifacts.
 The Estate of the late H. E. Vaile: Maori and Polynesian ethnographical collection; carvings and ornaments.
- 1937 Mr. E. Earle Vaile: Collection of ethnographical specimens and six Italian bronzes.
 Sir Algernon Thomas: Library of scientific books and papers.

GIFTS
TO THE
Library and Museum.

LIBRARY.

PERIODICALS.

- New Zealand Parliamentary Reports: Hansard, 1937; Monthly Abstract of Statistics, 1937; New Zealand Journal of Agriculture, 1937; Year Book, 1937.
- Publications of the Free Library and Art Gallery, Auckland.
- Publications of the Auckland University College.
- Journal of the Alpine Sports Club, Auckland.
- Bulletins of the Auckland Society of Arts.
- Bulletins of the New Zealand Geological Survey.
- Fisheries Bulletins, the Marine Department, New Zealand.
- Bulletins of the Dairy Research Institute, New Zealand.
- Publications of the Cawthron Institute, Nelson.
- Records of the Canterbury Museum, New Zealand.
- Bulletins of the New Zealand Libraries Association, Christchurch.
- Publications of the Council of Scientific and Industrial Research, Wellington.
- Bulletins of the Alexander Museum, Wanganui.
- Queensland Government Mining Journal.
- Proceedings of the Royal Society of Queensland.
- Memoirs of the Queensland Museum.
- Reports of the Great Barrier Reef Committee, Brisbane.
- The Australian Naturalist, Sydney.
- Records and Memoirs of the Australian Museum.
- Bulletins and Reports of the Technological Museum, Sydney.
- Proceedings of the Linnean Society of New South Wales.
- Journal of the Royal Society of New South Wales.
- Report of the Fisheries of New South Wales.
- Bulletins of the New South Wales Department of Agriculture.
- The Australian Zoologist.
- Proceedings of the Royal Society of Victoria.
- The Victorian Naturalist, The Field Naturalist Club of Victoria.
- The Publications of the Australian Inst. of Anatomical Research, Melbourne.
- Publications of the Council of Scientific and Industrial Research, Melbourne.
- Memoirs of the National Museum, Melbourne.
- Publications of the National Herbarium of Victoria.
- Records of the South Australian Museum.
- Transactions and Proceedings of the Royal Society of South Australia.
- Bulletins of the Geological Survey of West Australia.
- Proceedings of the Royal Society of Tasmania.
- Transactions of the Fijian Society, Suva, Fiji.
- Kew Bulletin.
- Proceedings of the Linnean Society of London.
- Bulletins of the International Tin Research and Development Council, London.
- Bulletins of the Imperial Institute, London.

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Publications of the Manchester Museum.
Proceedings and Reports of the Manchester Literary and Philosophical Society.
Publications of the Conchological Society of Great Britain and Ireland.
Publications of the National Museum of Wales.
Quarterly Bulletins and Reports of the Leicester Museum and Art Gallery.
Journal of the Marine Biological Association, Plymouth.
Proceedings of the Royal Society of Edinburgh.
Proceedings and Reports of the Belfast Natural History and Philosophical Society.
Publications of the National Museum, Dublin.
Annals of the Natal Museum.
Annals of the Transvaal Museum.
Annals of the South African Museum.
Annals of the Durban Museum.
Publications Fisheries Survey, Cape Town.
Occasional Papers of the Rhodesian Museum.
Records of the Indian Museum, Calcutta.
Publications of the Colombo Museum, Ceylon.
Bulletins of the Raffles Museum, Singapore.
Bulletins of the Botanic Gardens, Singapore.
Bulletins and Reports of the Valetta Museum, Malta.
Pacific Affairs: Mr. Archey.
Transactions of the Royal Society of Canada.
Bulletins and Reports, Department of Mines, Canada.
Bulletins of the Royal Ontario Museum of Archaeology, Toronto.
Bulletins of the Royal Ontario Museum of Zoology, Toronto.
Bulletins of the Royal Ontario Museum.
Museum Art Notes, Vancouver Scientific Association.
Quarterly Reports of the Vancouver City Museum.
Proceedings and Transactions of the Nova Scotia Inst. of Science.
Bulletins of the Independent Biological Laboratories, Palestine.
Publications of the Carnegie Institute of Washington.
Publications of the Carnegie Institute.
Publications of the State College of Washington.
Publications in Oceanography: The University of Washington.
Bulletins and Circulars, United States Department of Agriculture.
Annual Report and Bulletins of the U.S. Bureau of Ethnology.
Memoirs, Bulletins and Occasional Papers of the Bishop Museum, Honolulu.
Natural History and Reports, American Museum of Natural History.
Proceedings and Bulletins of the United States National Museum.
Publications of the American Midland Naturalist, Indiana.
Studies in Natural History, The University of Iowa.
Botanical Papers: New York Botanical Garden.
Annals of the New York Academy of Sciences.
Zoological, Geological, Anthropological and Botanical Series: Field Museum of Natural History.
Publications of the San Diego Society of Natural History.
Publications of the Charleston Museum, South Carolina.
Publications of the Pacific Geographic Society, Los Angeles.
Publications of the Southwest Museum, Los Angeles.
Proceedings of the California Academy of Sciences.
Publications of the University of California.
Marine Biology: Stanford University, California.
Bulletins of the California State Fisheries.
Publications of the University of Pennsylvania, Philadelphia.

Bulletins of the Wagner Free Inst. of Science, Philadelphia.
 Proceedings of the Academy of Sciences, Philadelphia.
 Contributions from the Gray Herbarium of Harvard University.
 Publications of the Peabody Museum of Archaeology, Harvard University.
 Meteorological Studies: The Observatory, Harvard University.
 Bulletins, Museum of Comparative Zoology, Harvard.
 Publications Biological Survey, The University of Oklahoma.
 Publications of the Chicago Academy of Sciences.
 Occasional Papers, The University of Michigan.
 Journal of the Maryland Academy of Sciences.
 Publications of the Hispanic Society of America.
 Annals of the Museum of Natural History, Buenos Aires.
 Publications and Bulletins of the School of Mines Buenos Aires.
 Publications of the San Miguel Observatory, Argentine.
 Annals of the School of Mines, Brazil.
 Annuaris Observatorio Nacional de Rio de Janeiro.
 Bulletins of the Museum of Natural History, Montevideo.
 Annals of the Geological Institute of Mexico.
 The Philippine Journal of Science, Manila.
 Bulletins de la Societe Etudes Oceaniennes, Tahiti.
 Bulletins L'Institut Oceanographie, Monaco.
 Publications of the Musee d'Histoire Naturelle, Paris.
 Bulletins of the Zoological Society of France, Paris.
 Bulletins of the Italian Library, Rome.
 Bulletins of the Laboratorio Zool. Gen. and Agraria, Portici, Italy.
 Publications of the Societa Toscana di Scienze Naturali, Pisa, Italy.
 Publications of the Zoological Inst. and Museum, Athens, Greece.
 Publications D'Océanographie Physique, Finland.
 Publications Das Museum fur Volkerkunde, Basel.
 Publications of the Danish Biological Station.
 Publications of the Adviser of Norwegian Fisheries, Bergen, Norway.
 Publications of the Natural History Museum, Stockholm.
 Bulletins of the University Library, Uppsala, Sweden.
 Proceedings of the Rjks Ethnograph Museum, Leiden, Holland.
 Bulletins and Memoirs of the Royal Museum of Natural History, Bruxelles.
 Bulletins du Jardin Botanique de l'Etat, Bruxelles.
 Annales de la Societe Royal Zoologique de Belgique.
 Publications of the Zoologischen Staatsinstitut Museum, Hamburg.
 Transactions of the Museum fur Volkerkunde, Hamburg.
 Transactions of the Zoological Museum, Berlin.
 Bulletins of the Deutsche Entomologisches Institut, Berlin.
 Transactions of the Zoologische Staats-Sammlung, Munchen.
 Publications of the Senckenbergischen Bibliothek, Frankfurt.
 Publications of the Naturhistorisches Museum, Wien, Austria.
 Annales of the National Museum, Budapest, Hungary.
 Comptes Rendus de l'Academie des Sciences de l'U.S.S.R., Moscow.
 Transactions of the Institute of Marine Fisheries, Moscow.
 Problems of Soviet Geology, Central Geological Library, Leningrad.
 Publications of the Warsaw Zoological Museum.
 Bulletins of the Society for International Cultural Relations, Tokyo.
 Publications of the Kyoto Imperial University, Japan.
 Publications of the Geological Survey of China.
 Bulletins of the National Library of Peiping, China.
 Bulletins of the Science Society of China, Nanking.
 Bulletins of the Metropolitan Library, Peking.
 Publications of the Bureau of Commerce, Batavia, Java.

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REPORTS.

Auckland Sailors' Home.
 Dominion Laboratory.
 Auckland Zoological Society.
 Auckland Acclimatisation Society.
 The Philosophical Institute of Canterbury.
 The Canterbury Museum.
 Wanganui Public Museum.
 Fisheries Reports, Wellington.
 Otago Public Museum.
 New Zealand Council for Educational Research.
 Hawkes Bay Branch of the Roy. Soc. of New Zealand.
 Department of Scientific and Industrial Research, Wellington.
 Public Libraries and Museum, Derby.
 Yorkshire Philosophical Society.
 Public Library and Museum, Victoria.
 Free Public Museums, Liverpool.
 Mappin Art Gallery, Sheffield.
 Stoke on Trent Museum.
 Norwich Castle Museum.
 Colchester and Essex Museum.
 Queen Victoria Museum, Launceston, Tasmania.
 Belfast Museum and Art Gallery.
 National Museum of Ireland, Dublin.
 John Crerar Library, U.S.A.
 The Philadelphia Museum.
 The American Museum of Natural History, New York.
 The Carnegie Museum, Pittsburgh.
 The Rhodesian Museum.
 National Museum of Southern Rhodesia.
 The Fisheries and Marine Biological Survey, Pretoria.
 The Egypt Exploration Society.
 National History Museum, Geneva.
 National Research Council of Japan.
 The Marine Biological Association of China, Nanking.

BOOKS.

Mr. C. J. O'Keeffe: Harris, Alaska and the Klondike; Duncan, The History of Russia; Shaw, Madagascar and France.
 Mr. Archey: The Ruins of Mexico; Dastre, Life and Death; Geddes and Thomson, The Evolution of Sex; Belshaw, Recovery Measures in New Zealand.
 Mrs. H. Edwards: Te Korimako, 1882-1886.
 Mr. R. A. Falla: Stead, The Life Histories of New Zealand Birds.
 Rev. Father Lavelle: Kidd, The Essential Kaffir; Savage and Lauder, Across Unknown South America, 2 vols.
 Mrs. Payne: The Canterbury Chronicle.
 Mr. F. E. Williams: Anthropology Reports, Territory of Papua.
 The Discovery Committee: Discovery Investigations.
 Sir. A. W. Hill: Hooker, Icones Plantarum.
 Mr. Blair: Shand, The Moriori People of the Chatham Islands.
 British Museum: Terra Nova Reports.
 Miss G. B. Anderson: The Art of Ancient Egypt.
 Mr. Ivens: A Dictionary of the Language of Mala and Ulava, S.E. Solomon Islands.
 Miss Lord: Cowan, Sketches of Old New Zealand.

Mr. Powell: The Shellfish of New Zealand.
 Sir Douglas Mawson: Antarctic Expedition Reports.
 Gothenburg Museum, Sweden: Ethnological Studies.
 The Carlsberg Foundation: Dana Reports.

ACCESSIONS, 1937-38.

Mr. R. S. Abel: Papuan ethnographical specimens and Maori canoe bailer.
 Dr. H. H. Allan: Specimens of naturalized plant.
 Mr. A. H. Allcock: Brown gecko.
 Mr. V. Aitkenhead: Carved Maori stone slab from Helensville.
 Miss Gwen Anderson: Luristan Bronze Age horse amulet.
 Mr. Anderson: Shingle-back lizard from Australia.
 Mr. K. L. Arvidson: Specimens of moth and butterfly from New Guinea.
 Mr. H. Atkinson: Herbarium specimen of *Pseudopanax ferox*.
 Mr. Geo. Barker: Tattooing implement from Fiji.
 Mr. Charles N. Basham: Old powder tester.
 Mr. H. W. Beasley: Maori ethnographical specimens from Huntly.
 Rt. Rev. Bishop F. A. Bennett: Wooden implement from Chatham Islands.
 Mrs. C. M. Billings: Old silver fork from officers' mess, during Heke's wars.
 Miss F. H. Blamey: Collection of mollusca from Wellington Province.
 Rt. Hon. Viscount Bledisloe: Pavement tesserae and pottery fragments from Roman Hospitium, Lydney Park, Gloucestershire.
 Dr. L. H. Briggs: Collection of seaweeds from Doubtful Sound.
 British Museum: Collection of photographs of Maori and Polynesian specimens.
 Mr. G. R. Brookes: Stone adze from Pakuranga.
 Mr. E. Browne: Two lampreys from Piha.
 Mr. L. T. Brown: Three negatives of immature gannet.
 Mr. G. A. Buddle: Nest of white-breasted tit.
 Mr. R. T. Bruce: Stone adze from Pukekaroro and wooden artifact.
 Mr. H. B. Burnett: Four books of New Zealand ferns.
 Dr. H. Burrell: Wooden spear and curved club from New Hebrides.
 Mr. D. N. Campbell: Burmese shrine: deposited.
 Mr. H. Carr: Large stone adze from Whakatane: deposited.
 Mrs. Ewena Cate: German flag cut down at Apia.
 Miss G. Caton-Thompson: Collection of implements from Kharga Oasis.
 Master James Cave: Small greenstone chisel from Maungatapere: deposited.
 Mr. E. Clarke: Pipe fish.
 Dr. L. R. Cleveland: Specimens of termites.
 Mr. N. Coldicutt: Human skull.
 E. S. and C. Cole: Collection of china.
 Mr. C. E. H. Coles: Two skulls of *Bos gaurus* from India.
 Professor J. B. Condliffe: Cloak worn at Treaty of Akaroa, 1848: deposited.
 Mr. A. E. Curry: Axe from South Africa.
 Captain Charles Daniel: Stone adze from Ponui Island.
 Mrs. Grace de Courcy: Spinning wheel, kava bowl and Egyptian specimens.
 Mr. I. Dick: Jubilee medal issued in 1887.
 Mr. L. J. Dumbleton: Specimens of "Nardoo" (*Marsilea* sp.), and seaweeds.
 Mr. A. G. Devore: Long wooden spear from Fiji.
 Mr. A. J. Elmore: Miner's "spider," or candle-holder.
 Mr. C. W. Firth: Collection of geological specimens.
 Mr. Fletcher: Brown gecko.
 Mr. Owen Fletcher: New species of *Paryphanta* snail.
 Mr. C. R. Ford: Leeds jug, Rockingham vase, Spode sucrier and Doulton salt-glaze candlestick.

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- Captain A. W. F. Fuller: Seal of Papal Bull of Pope Clemens XII., collection of ethnographical specimens from Peru, red-figure vase of Chemu Period, and stone image from India.
- Miss Garland: Enamel bracelets, mother of pearl purse, six miniatures and small piece of Roman mosaic.
- Miss M. A. Geddes: Tangiwai pendant.
- Mr. S. C. Gilfillan: Rainbow lorikeet.
- Mr. R. L. Goad: Stone knobbed sinker from Helensville, and star finch.
- Mr. Anthony and Miss Shirley Golding: Case of British birds' eggs.
- Mr. C. Goldworthy: Skeleton of anterior limb of small whale.
- Mrs. S. E. Gregory: Two spirit glasses: deposited.
- Mr. T. F. Grey: Copies of "Te Torea," 1897, "Ioi Karanga," 1898, and Auckland Weekly News, 1900.
- Mr. P. L. Guillard: Block of Putaruru building stone.
- Mr. R. K. Gunn: Trap door spider.
- Miss Bertha Guthrie: Mahogany seeds.
- Mr. Hall: Skink (*Lygosoma*).
- Mr. H. Hall: Maori implements from Whangamarino.
- Mr. L. Halliday: Fire-sticks from Piha.
- Mr. T. H. Hankin: Natural history and ethnographical specimens.
- Mr. Harold I. Harding: Cloisonne water pipe and three other types of pipe from China.
- Miss Z. Harris: Lime spatula, Trobriand Island, and ladle; stone flax beater and kumara weeder from Opuia: deposited.
- Dr. Violet Hastings: Puriri moth.
- Mr. C. W. Hawkins: Scale model of scow "Kitty Fraser."
- Mr. N. G. Hawkins: Stone adze from Titirangi.
- Mr. S. Hazlitt: Bone fish-hook point, Kuaotunu.
- Mr. R. T. Henderson: Tree gecko.
- Mr. Herring: Three stone adzes.
- Mr. A. B. Herrold: Fijian marine mollusca.
- Mrs. J. D. Hewett: Rock crystal from Franz Josef Glacier: deposited.
- Mr. Hewitt: Brown gecko.
- Mr. M. Hodgkins: Pressed seaweed specimens.
- Miss Betty Honey: *Dodonidia helmsi* from Makarau.
- Mr. S. M. Hovell: Flaked chert adze, obsidian scrapers and chert chisel, from Waihi Beach.
- Archdeacon H. A. Hawkins: Whale's tooth decorated with Scrimshaw work.
- Mr. W. K. Howitt: Maori War silver medal: deposited.
- Captain and Mrs. G. Humphreys-Davies: Two lacquered chests with lids and carrying cords, Japan. Painting of pōhutukawa tree.
- Mr. G. R. Hutchinson: Specimens of aviary birds.
- The Minister for Internal Affairs: Coronation Medal.
- Mr. Clifford Jackson: Skull cap from site of old Parnell school.
- Mr. Noel Johnson: Sixty-two coins.
- The late Mrs. M. S. C. Jones: Wooden bowl from Solomon Islands.
- Miss K. Keesing: Lady's satin slipper of 1840.
- Mr. J. R. Kerr: Wooden fernroot beater and stone adze from Te Puke: deposited.
- Lady Kinsey: Seals, intaglios and collection of early glass bottles.
- Mr. T. O. Kirkpatrick: Collection of ethnographical specimens.
- Mr. E. F. Knowles: Greenstone pendant from Akaroa.
- Mr. Edmond S. Kohn: Watch guarantee.
- Mr. W. Langguth: Weta.
- Mr. W. Larigan: Specimen of quartzite.
- Mr. A. L. Lee: Chert drill point.

- Master Herbert Limmer: Moth from Te Kowhai.
 Mr. V. W. Lindauer: Type material of *Champia laingii* sp. nov. from Russell.
 Miss C. G. Lord: Two Wedgwood plates, silver knife and fork, card case and needle horn.
 Miss F. Macpherson: European earwig.
 Mrs. C. E. Maguire: Collection of ethnographical specimens.
 Mr. D. P. Malcolm: Flint lock blunderbus.
 Mr. E. R. Marmont: Largeheaded weta.
 Mr. C. O. Mogridge: Palaeolithic and Neolithic stone implements from Hampshire, England.
 Mrs. Moginie: Greenstone and stone adzes.
 Mr. F. A. S. Moore: Shark caught at Maraetai.
 Moore Fisheries: Specimens of boarfish and Sandager's parrot fish.
 Mr. A. Morrow: Peripatus.
 Mrs. E. Morton: Large collection of selected pieces of kauri gum.
 Mr. W. A. Moxsom: Epiphysis of whale.
 Mr. E. Munn: Double nest of blackbird.
 Miss Janet McCarthy: Three budgerigar eggs.
 Captain J. D. McComish: Collection of plants, shells and seaweed from Lord Howe Island.
 Mrs. F. McCormack: Golden Peace number of "Daily Mail."
 Mr. J. McIntosh: Old brass whaling gun and bomb.
 Mr. Geoffrey Nevill: Four Maori stone adzes and fifteen copper coins.
 Mr. H. Newton: Programme of Peace Celebrations of Crimean War.
 Mr. Nicks: Red rock cod.
 Mr. A. C. O'Connor: Two new species of *Paryphanta* snails.
 Dr. W. R. B. Oliver: Collection of peat samples.
 Mr. E. J. Osborne: Collection of foreign aviary birds.
 Mr. C. Palmer: Stone lamp from Ohiwa pa.
 Dr. G. B. Palmer: Human mandible and several flint implements and flakes of Bronze Age.
 Mr. T. Pamatatau: Specimens of *Caulerpa* from Niue Island.
 Mr. V. D. Parkinson: Three cave wetas.
 Mrs. A. Penn: Two cases of mounted specimens of N.Z. birds.
 Mr. R. Pennycook: Old English pewter pot.
 Mr. R. Petterson: Five pieces of Putaruru building stone.
 Mr. T. Pierard: Lizard from Tonga Is.
 Bureau of Plant Industry, Manila: Woven specimens of native fibres.
 Mr. A. Powell: Sinter specimens from Ohinemutu.
 Mr. T. Poynter: Two Maori adzes, insects and shells from Fiji. Photograph of s.s. "Ionic."
 Mrs. J. Prothero: Specimens of yam and taro.
 Mr. A. K. Punshon: Copy of "The Cologne Post," 1925.
 Mr. A. T. Pycroft: Hafted adze from Tahiti and carved club from Tonga.
 Mr. H. Ramsey: Large *hoanga* from Glen Murray.
 Mr. Oscar Raphael: Bronze mirror from China.
 Mr. I. D. Richardson: Set of negatives featuring interior and collections of Princes Street Museum.
 Mr. Victor Rienaecker: Unglazed pottery figure from China.
 Mrs. M. Ring: Old English silver spoon, Henry VIII. period: deposited.
 Mr. Roberts: Stone decorated with carving: deposited.
 Mr. T. Rothwell: Fossilized wood with pyrites.
 Mr. Russell: Specimens of white ant and timber attached.
 Mr. R. Sanders: Large rainbow trout and Barrier Reef shells.
 Mr. E. R. Sawyer: Pressed poppy picked up in Bapaume.

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- Mr. Seaton: Sea-snake.
 John Shorter, Ltd.: Royal Doulton, silver-mounted loving cup with portrait of ex-King Edward VIII.
 Mr. Bernard Sladden: Greenstone scraper-pendant from Slipper Island.
 Mrs. Albert Slattery: German flag from Apia.
 Mrs. J. Slyfield: Four stone adzes.
 Dr. J. Somerville: Spider (*Epeira* sp.).
 Mr. E. A. Sorenson: Small *hoaka* and a stone cutting implement.
 Mr. Springall: *Cordyceps Sinclairii* on cicada.
 Miss Peggy Steele: Giraffe weevil.
 Mrs. R. Sullivan: Ethnographical specimens from N.Z. and Pacific.
 Miss Eileen M. Sutton: Peripatus.
 Mr. Kouma Tapsell: N.Z. Ensign: deposited.
 Mr. N. Taylor: Peat samples from Kaitaia, and small pumice bowl from Weymouth.
 Mr. J. W. Teed: Burmese brass figure.
 Mrs. E. Terrace: Maori ethnographical specimens.
 The Hon. E. G. Theodore: Telluride from Loloma Mine, Fiji.
 Mr. J. Thomson: Giraffe weevil.
 Dr. F. J. Turner: Collection of geological specimens.
 Mr. E. E. Vaile: Large collection of ethnographical specimens, six large Italian bronzes and Henry IV. groat.
 Captain F. E. Vellenoweth: Two eels from Cook Islands.
 Mr. C. Waite: German Iron Cross.
 Professor A. Wall: Collection of plant specimens.
 Messrs. A. Watemburg and W. Meyer: Snapper 41 inches long and 28 lbs.
 Mr. Wells: Old medal.
 Miss L. White: Collection of Western Australian ethnographical material.
 Mr. R. Wilson: Piece of kauri gum.
 Mr. P. E. Woodhead: Long-tailed bat.
 Mr. Woodhouse: Specimens of Woodhouseite and Crocoite.
 Mr. A. L. Wotherspoon: Bone one-piece hook from Te One, Chatham Is.: deposited.
 Mr. G. W. Wright: Collection of coins and tokens.
 Mrs. S. Yallop: Fine dish-shaped coral.
 Zoological Park: Fireback pheasant, vulture, bleeding-heart pigeon, fruit dore, giant tortoise, whydah and oriole specimens.

Members of the Auckland Institute.

(Members are requested to advise the Secretary of any change of Address)

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Sir Cecil Leys.

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- Jenkins, C. H.
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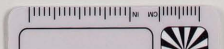
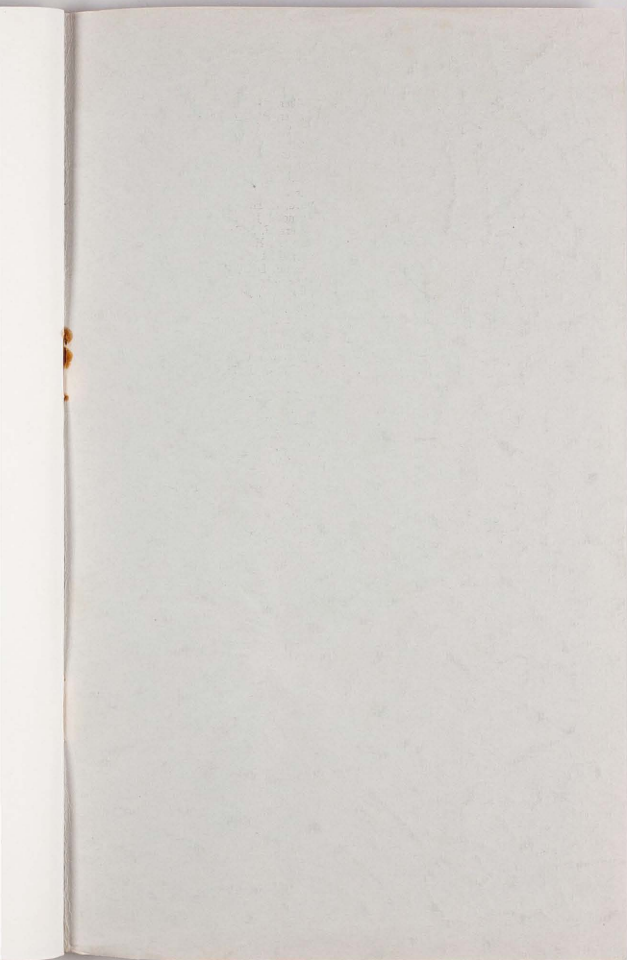
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